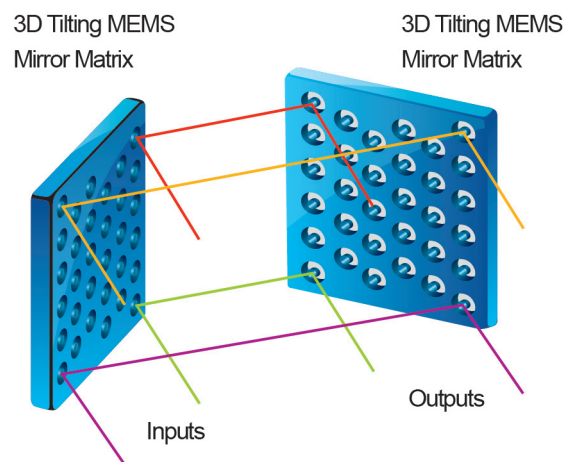


32X32 MEMS 3D RACKMOUNT MATRIX OPTICAL SWITCH

DiCon's MEMS Rackmount 3D Matrix Optical Switch is a proprietary optical switch structure that allows the simultaneous connection of multiple input to output fibers in a non-blocking, all-optical cross-connect configuration.

OPERATING PRINCIPLE (ANY PORT TO ANY PORT FUNCTIONALITY)



FEATURES

- Available in any MxN Size up to 32x32
- Proven DiCon MEMS Technology
- Easy-To-Use Rackmount Housing
- Ethernet or RS232 Interface

APPLICATIONS

DiCon Fiberoptics offers a rackmount version of the 3D Matrix Optical Switch for research and production environments, and is used to share valuable resources in a automated, reliable manner.



32X32 MEMS 3D RACKMOUNT MATRIX OPTICAL SWITCH

OPTICAL SPECIFICATIONS¹

PARAMETER		RATING
Insertion Loss ²	24x24	0.8 dB typ. 1.4 dB max.
	32x32	0.8 dB typ. 1.4 dB max.
Crosstalk		-70 dB typ. -55 dB max.
Back Reflection		-55 dB typ. -45 dB max.
Switching Time		15 ms typ. 20 ms max.
TDL		0.1 dB typ. 0.4 dB max.
WDL ³		0.1 dB typ. 0.4 dB max.
PDL		0.08 dB typ. 0.25 dB max.
Repeatability ⁴		0.01 dB typ. 0.06 dB max.
Durability		10 ⁹ cycles min.
Optical Power		500 mW max.
Operating Temperature		-5 to 70°C
Storage Temperature		-40 to 85°C
Fiber Type		9/125 μm Single-mode

1. All specifications are without connectors for the set wavelength band index.

Note: Each wavelength band has its own wavelength index, which can be set to optimized the optical performance for that band. Only one wavelength index band can be selected at a time and it applies to all the ports on the module.

2. IL is measured at CWL for the set wavelength index at 23°C +/- 5°C.

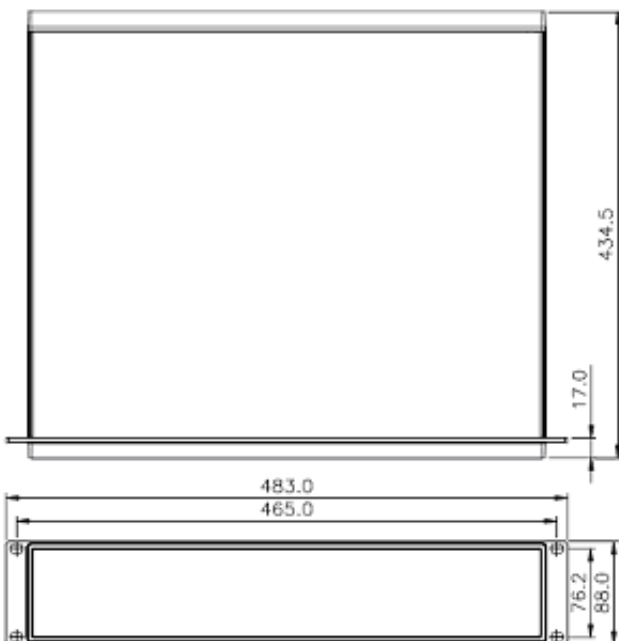
Operation in 1290-1330nm or 1570-1610 nm bands add 0.1 dB to the typical IL and add 0.2 dB to the maximum insertion loss.

3. WDL is measured from CWL in a +/- 20nm range at 23°C +/- 5°C.

4. Repeatability is defined within 100 cycles.

MECHANICAL DIMENSIONS

2U 19" RACKMOUNT CHASSIS



ORDERING INFORMATION

MXR - - 2U - - - 9 - - B -

Product Code

MXR MEMS
Rackmount
Matrix Switch

Switch Configuration

MxN/3D 3D MxN Non-Blocking
(Specify M,N ≤ 32)

Housing Type

2U 2U Rackmount

Control Interface

ETH Ethernet
RS2 RS232
E/R Ethernet & RS232

Only one control interface can be selected at a time.

Wavelength Range

13 1290 - 1330 nm
15 1530 - 1570 nm
16 1570 - 1610 nm
13/15 1290 - 1330 nm & 1530 - 1570 nm
15/16 1530 - 1570 nm & 1570 - 1610 nm
13/15/16 1290 - 1330 nm & 1530-1570 &
1570-1610 nm

Other wavelengths available upon special request

Fiber Type

9 Corning SMF-28
Or other equivalent 9μm Single-mode fiber

Connector Type

FC/SPC FC/SPC
FC/APC FC/APC
MTP MTP
Also Available: SC, SC/UFC, SC/APC, ST, ST/UFC, LC

Port Type

B Bulkhead Adaptors

Port Location

F Front Panel
R Rear Panel

ELECTRICAL SPECIFICATIONS

PARAMETER		RATING
Control Type		Ethernet or RS232
Input Voltage		90 - 264 VAC
Connector Type	Ethernet	RJ45
	RS232	9 Pin DB9